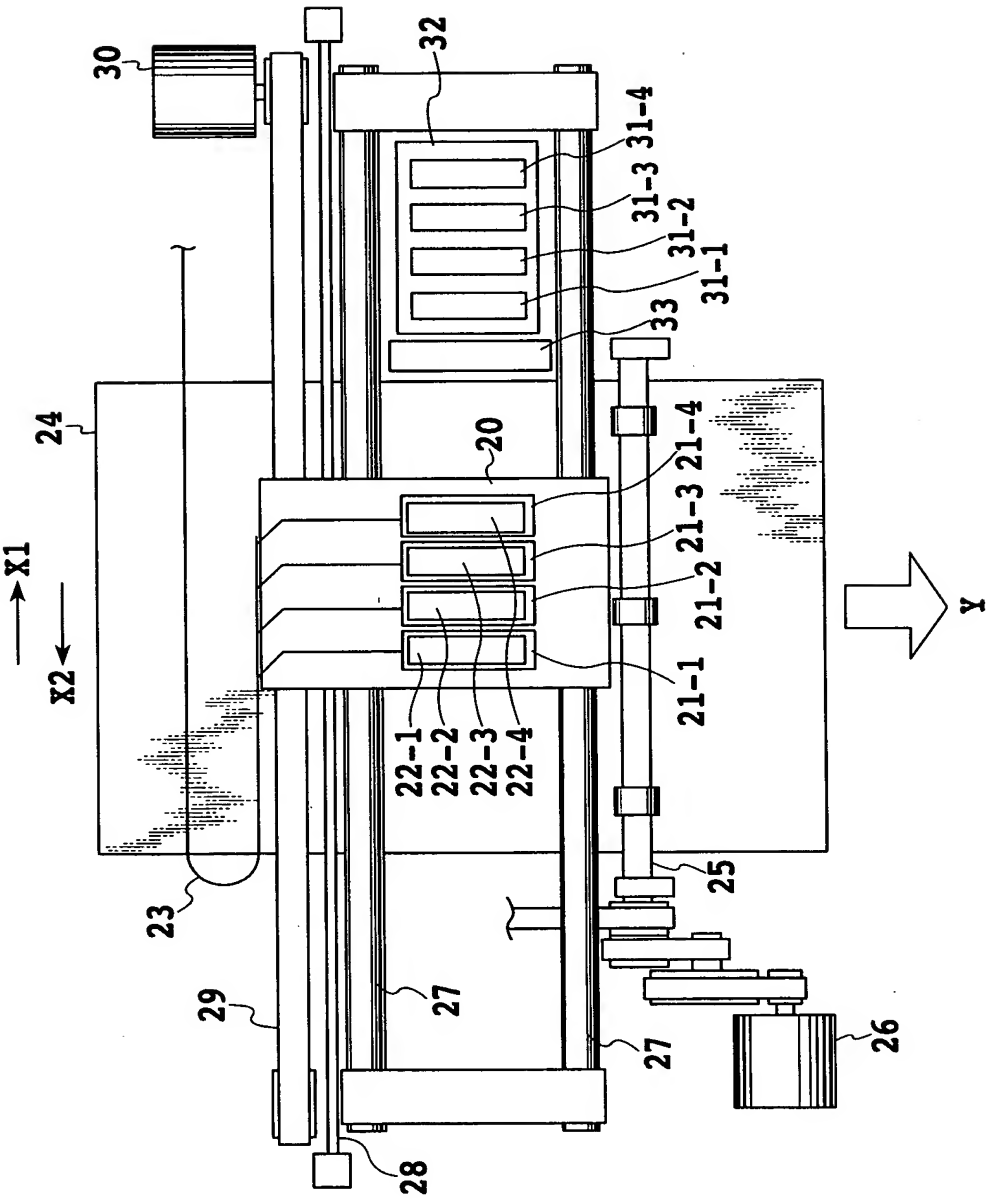

30
32
31-4
31-3
31-2
31-1
33
24
20
21-4
21-3
21-2
21-1
X1
X2
Y
22-1
22-2
22-3
22-4
23
25
29
27
27
26
28

FIG.1

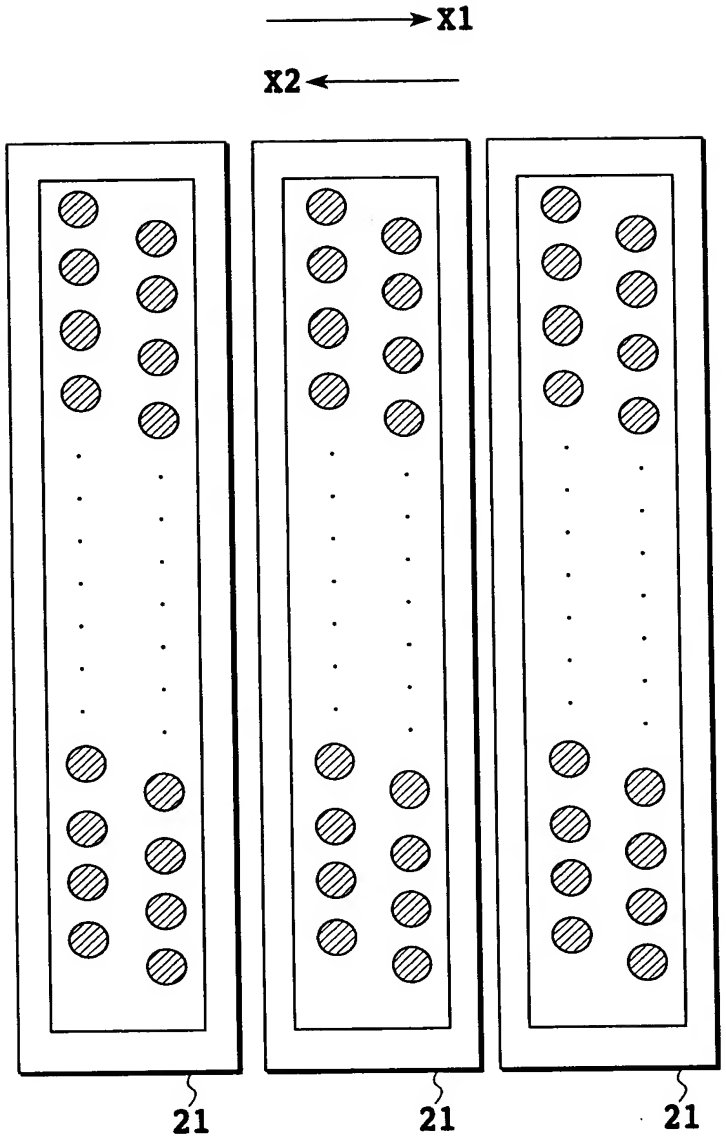


FIG.2

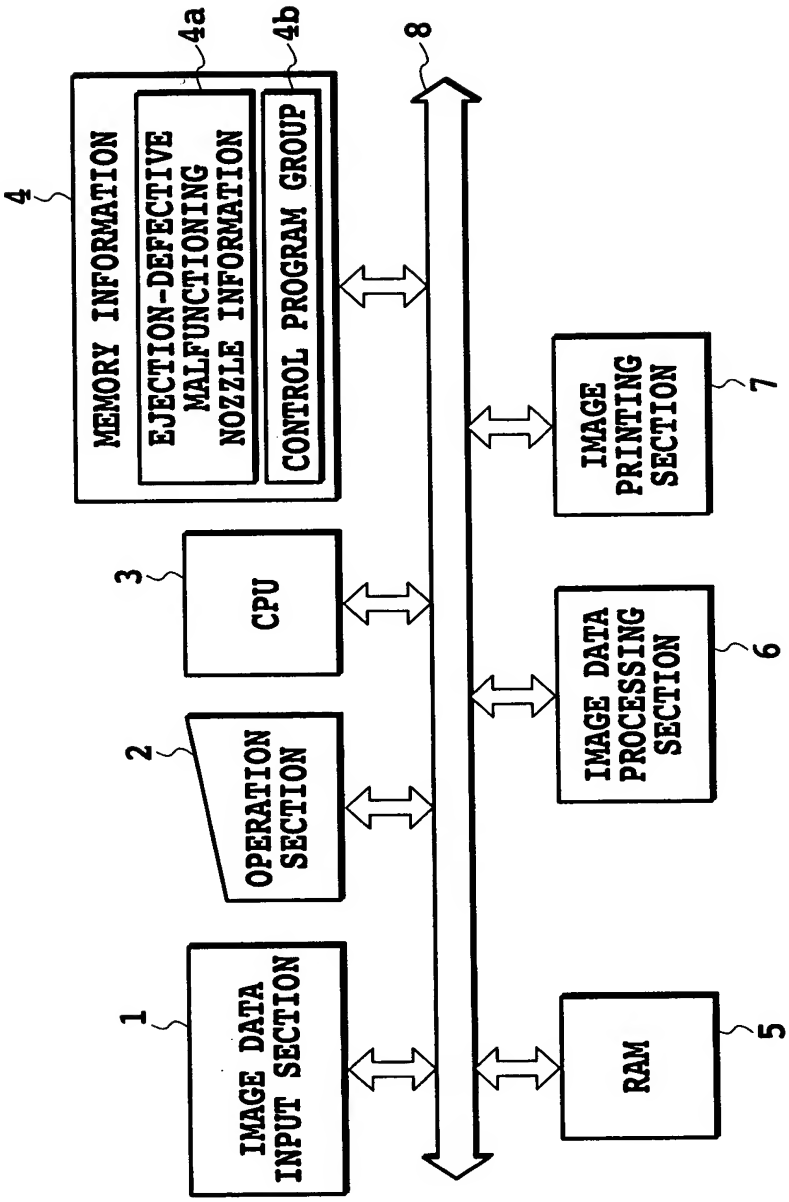

4
MEMORY INFORMATION
4a
EJECTION-DEFECTIVE MALFUNCTIONING NOZZLE INFORMATION
4b
CONTROL PROGRAM GROUP
8
3
CPU
2
OPERATION SECTION
1
IMAGE DATA INPUT SECTION
IMAGE PRINTING SECTION
7
IMAGE DATA PROCESSING SECTION
6
RAM
5

FIG.3

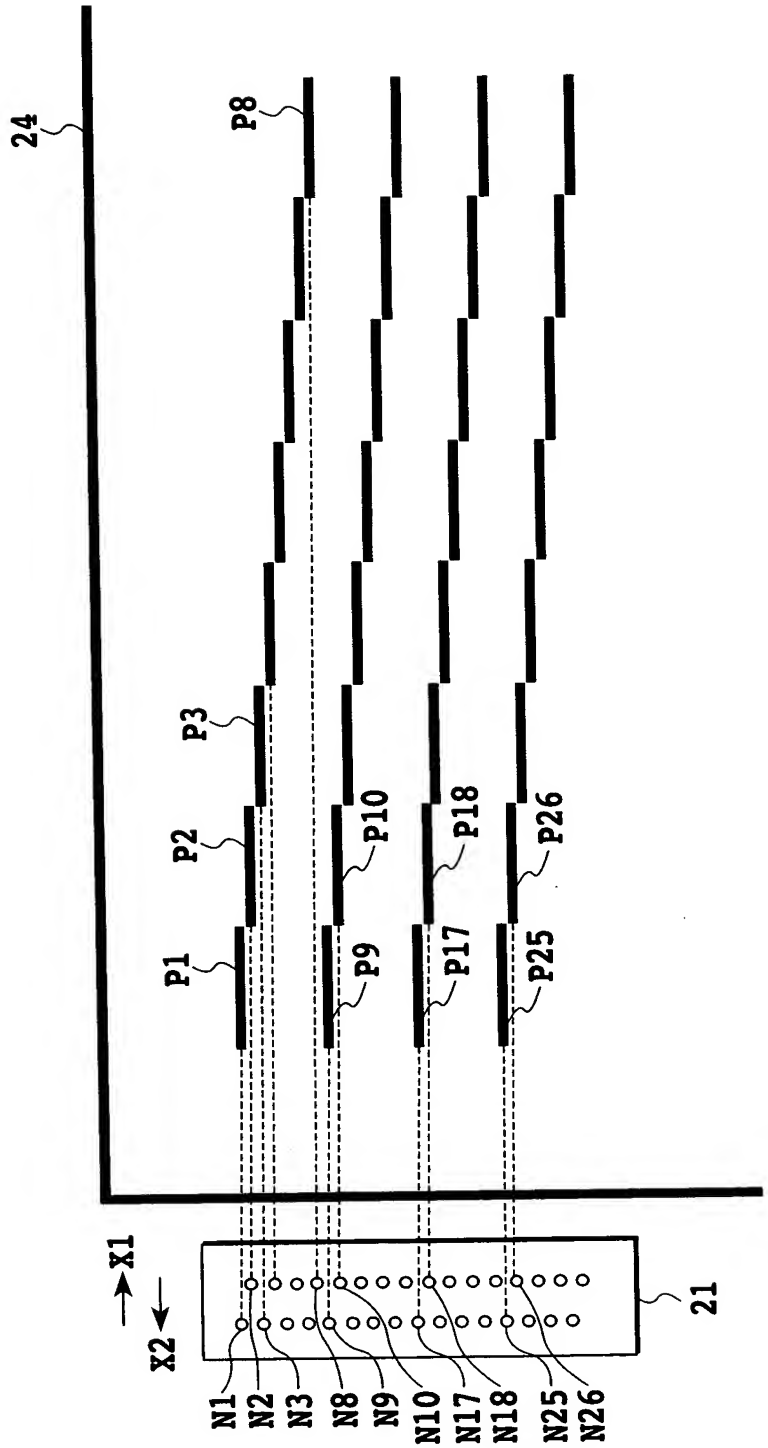

24
P8
P3
P2
P1
P10
P9
P18
P17
P26
P25
X1
X2
21
N1
N2
N3
N8
N9
N10
N17
N18
N25
N26

FIG.4

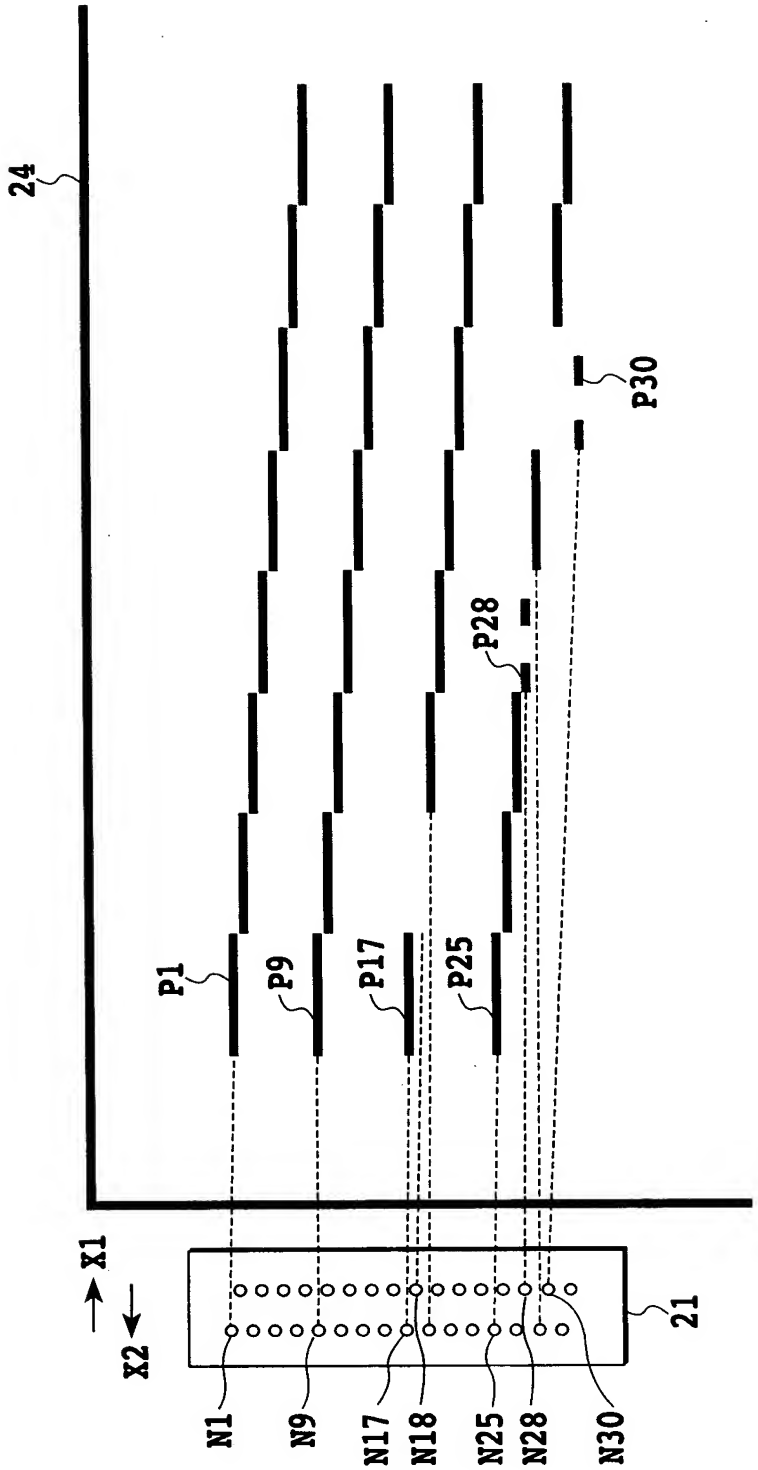


FIG.5

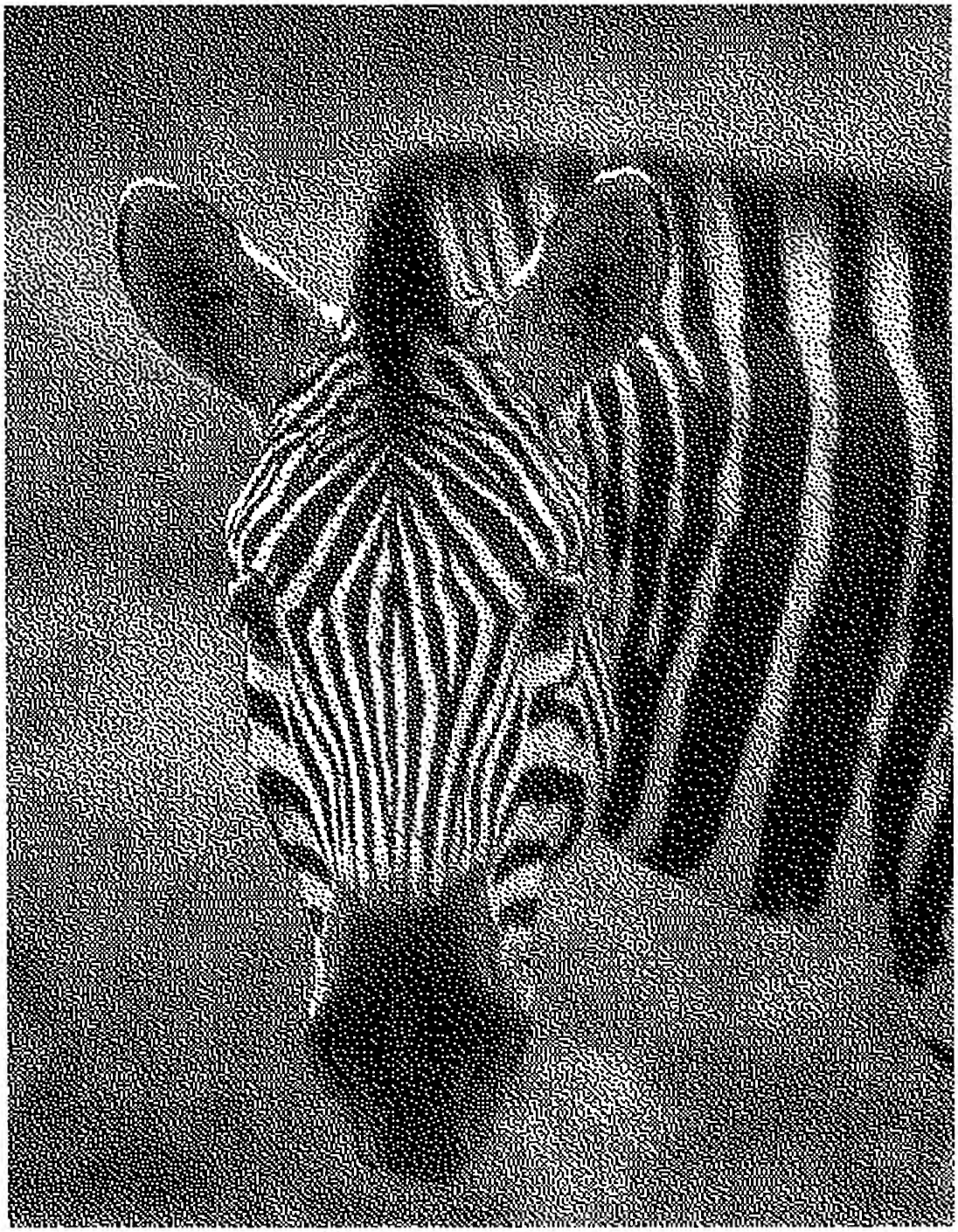


FIG.6

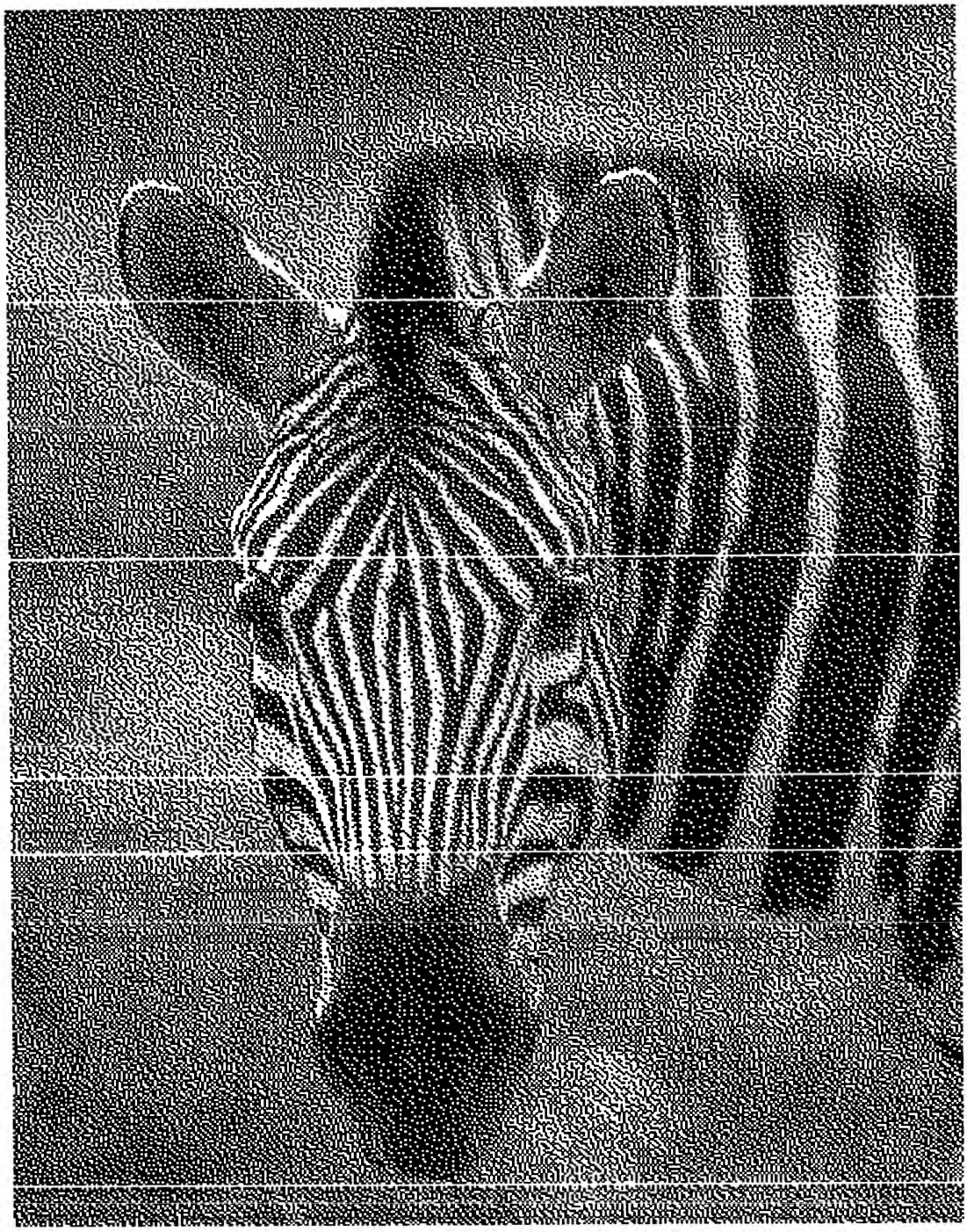


FIG.7

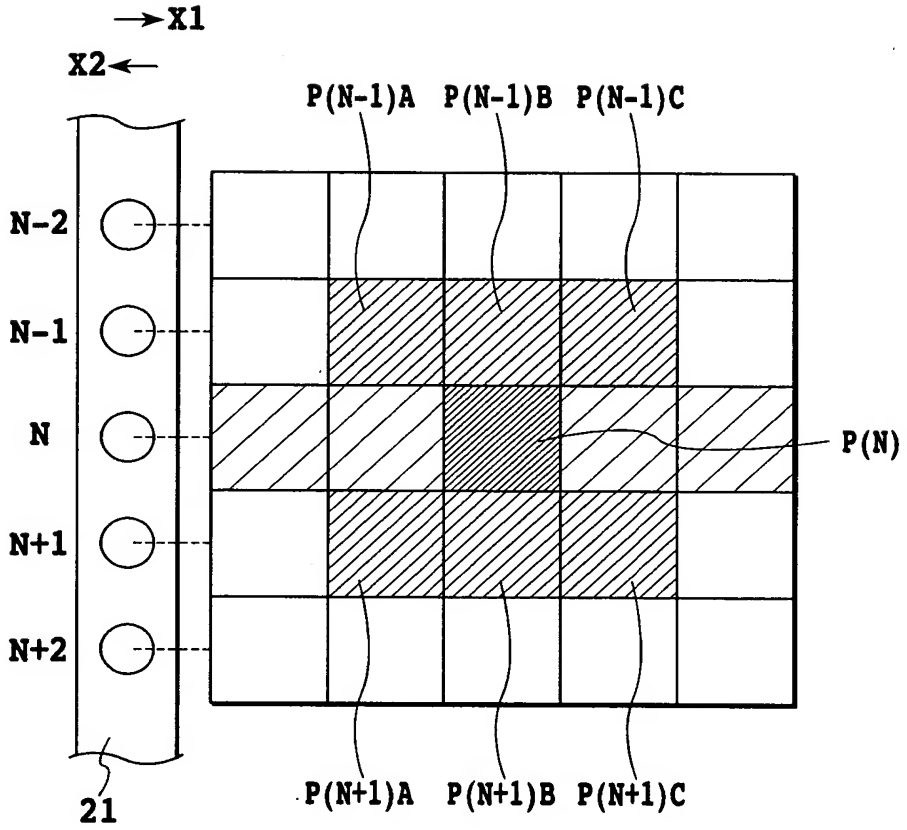


FIG.8

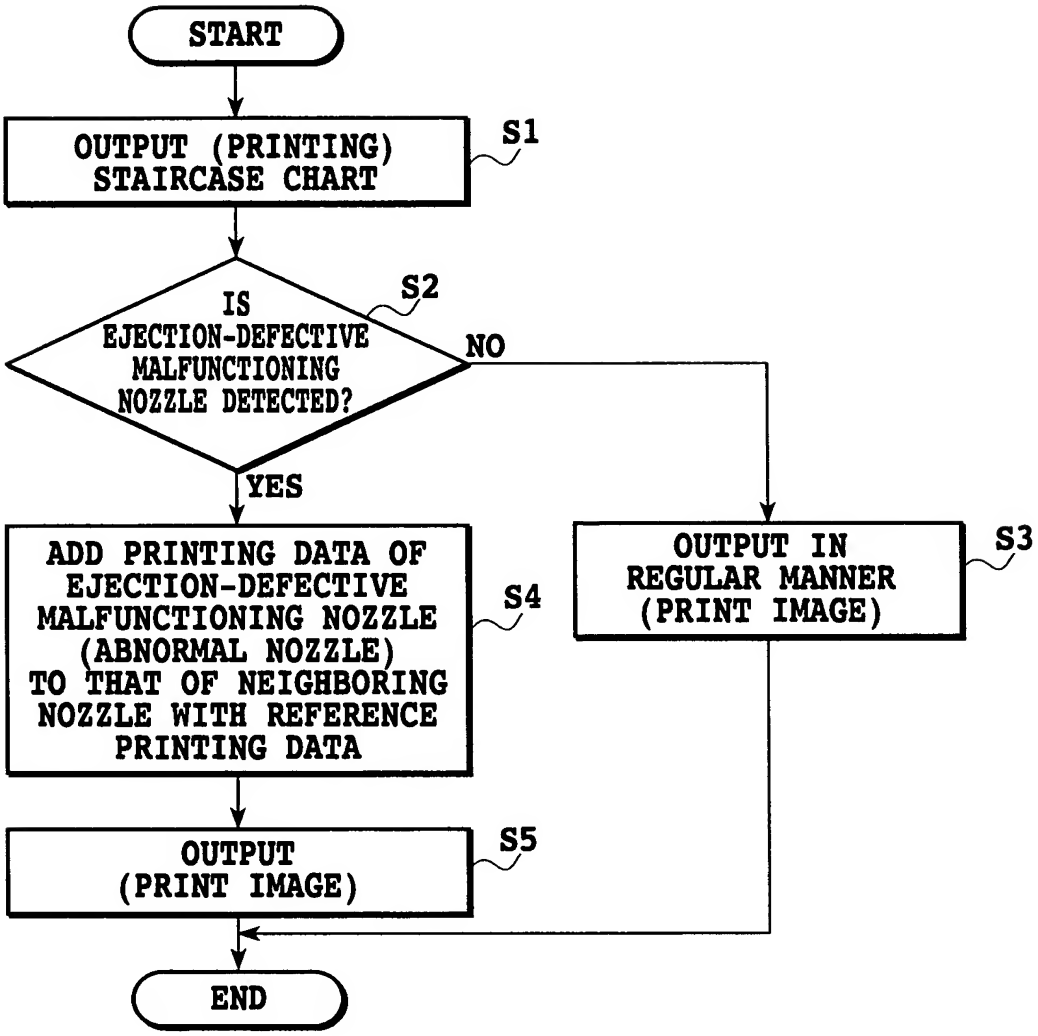

START
OUTPUT (PRINTING) STAIRCASE CHART
S1
IS EJECTION-DEFECTIVE MALFUNCTIONING NOZZLE DETECTED?
S2
NO
YES
ADD PRINTING DATA OF EJECTION-DEFECTIVE MALFUNCTIONING NOZZLE (ABNORMAL NOZZLE) TO THAT OF NEIGHBORING NOZZLE WITH REFERENCE PRINTING DATA
S4
OUTPUT IN REGULAR MANNER (PRINT IMAGE)
S3
OUTPUT (PRINT IMAGE)
S5
END

FIG.9

FIG.10A

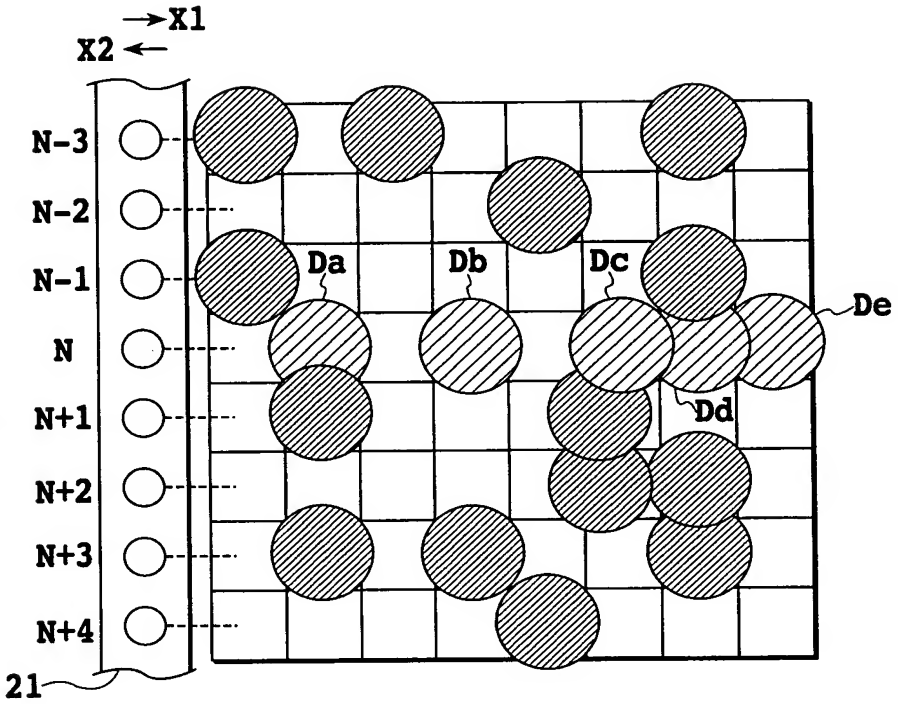
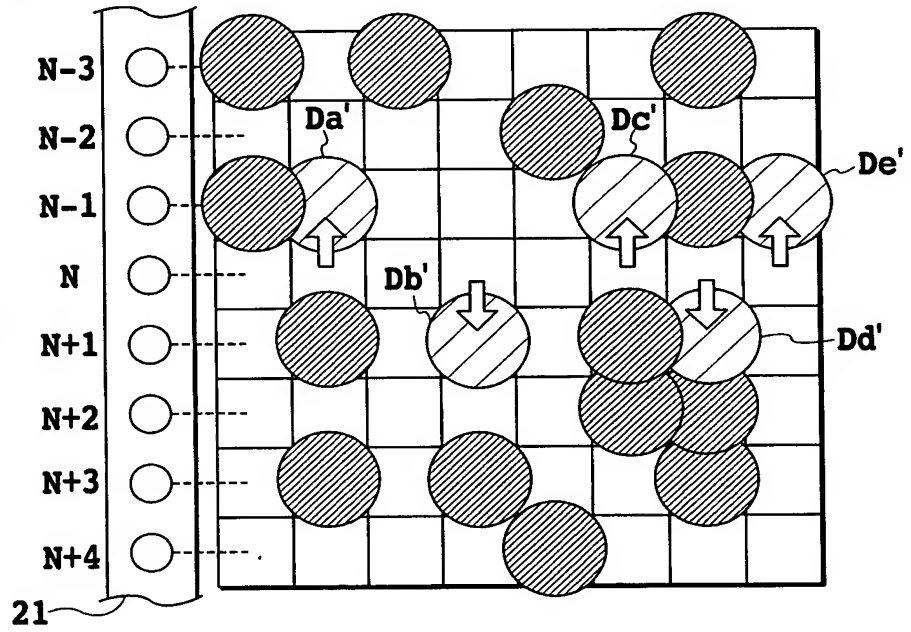
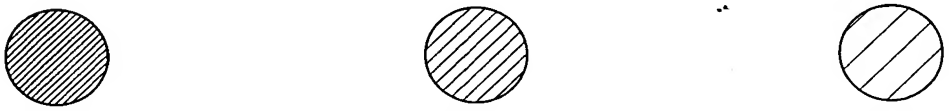


FIG.10B





PRINTING DATA OF A NORMAL NOZZLE

PRINTING DATA OF EJECTION-DEFECTIVE MALFUNCTIONING NOZZLE (ABNORMAL NOZZLE)

PRINTING DATA COMPENSATED BY NEIGHBORING NOZZLE

FIG.11A

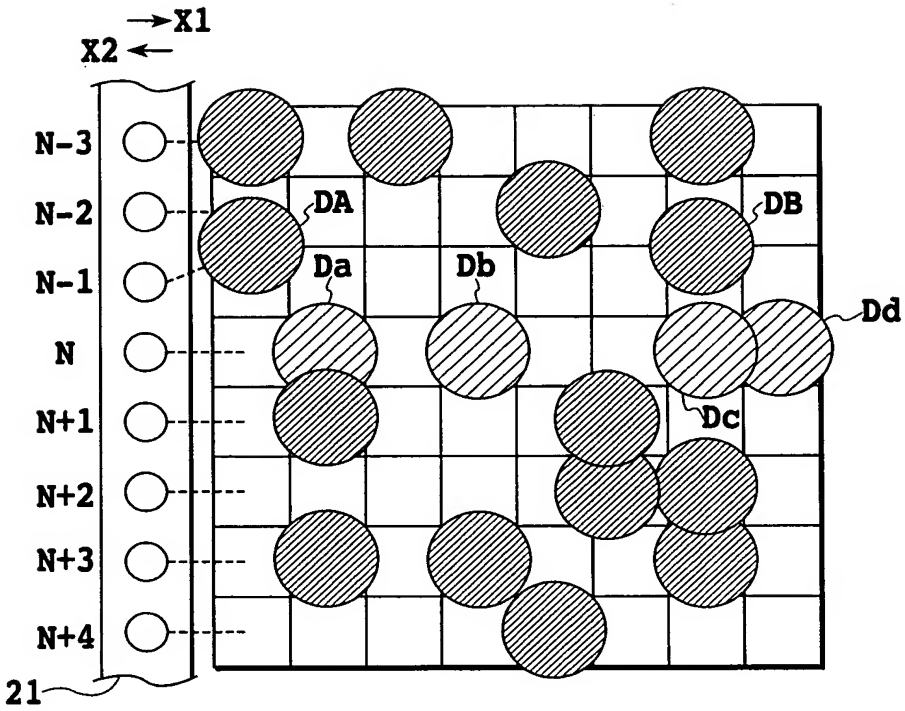
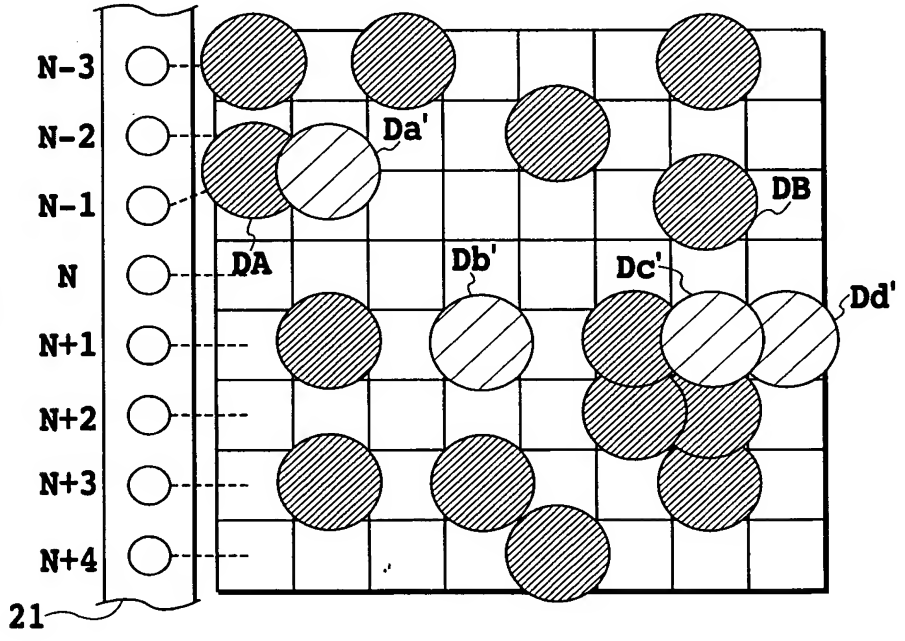


FIG.11B



PRINTING DATA OF A NORMAL NOZZLE

PRINTING DATA OF EJECTION-DEFECTIVE MALFUNCTIONING NOZZLE (ABNORMAL NOZZLE)

PRINTING DATA COMPENSATED BY NEIGHBORING NOZZLE

FIG.12A

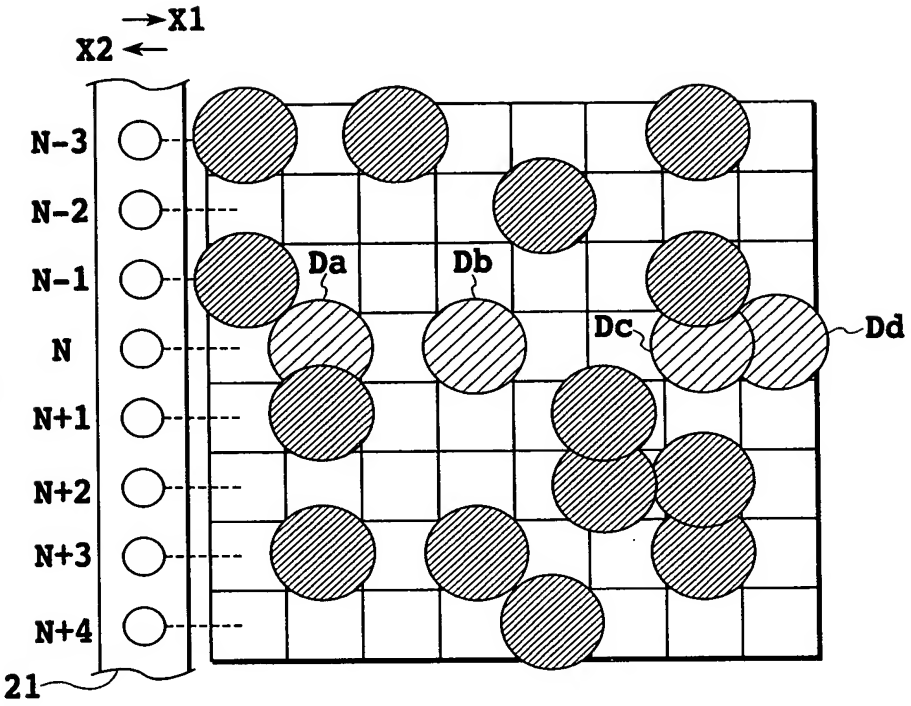
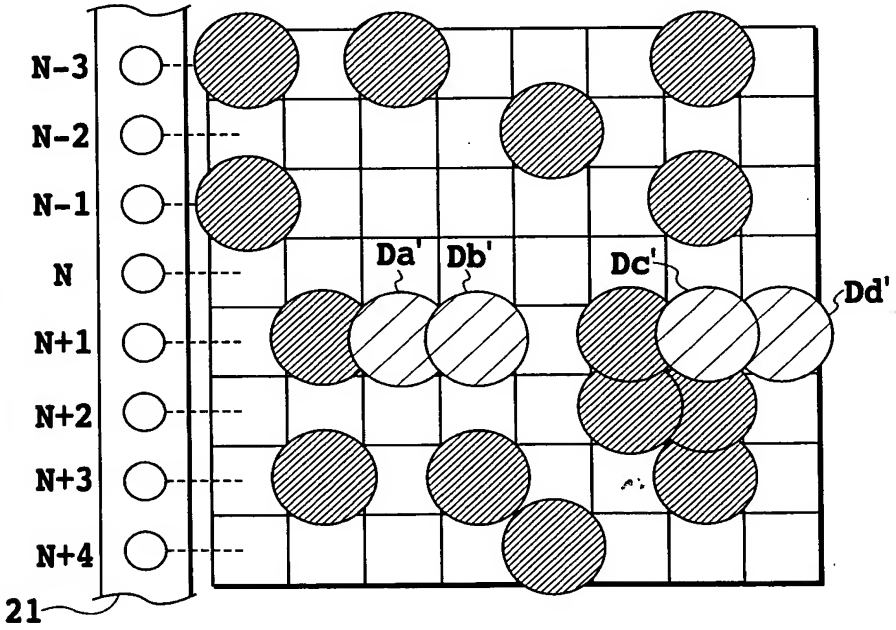
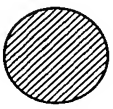
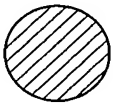


FIG.12B

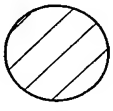




PRINTING DATA OF A NORMAL NOZZLE



PRINTING DATA OF EJECTION-DEFECTIVE MALFUNCTIONING NOZZLE (ABNORMAL NOZZLE)



PRINTING DATA COMPENSATED BY NEIGHBORING NOZZLE

FIG.13A

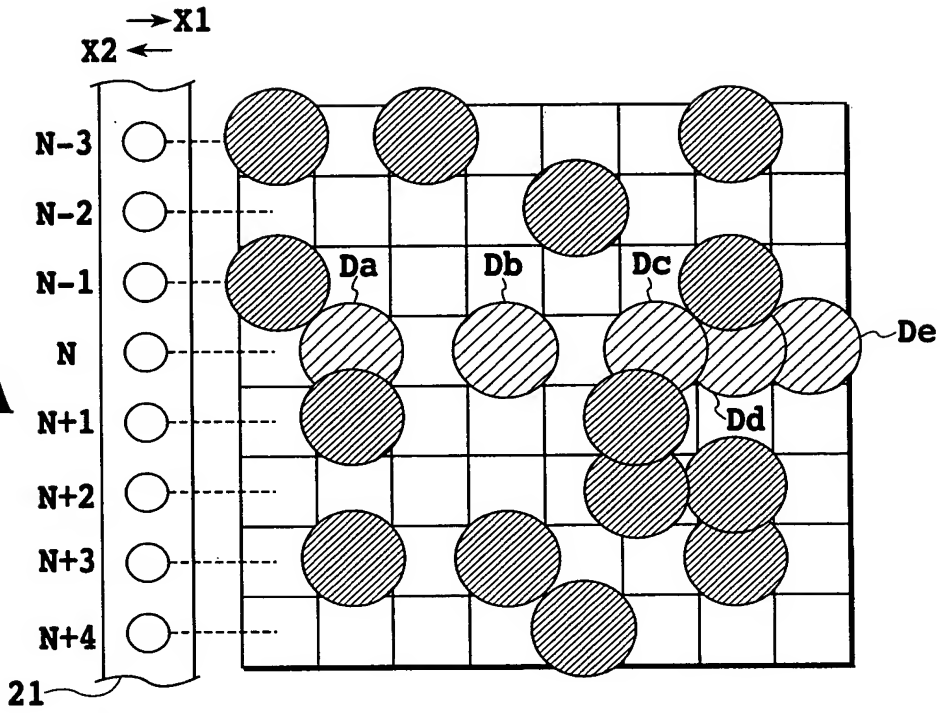
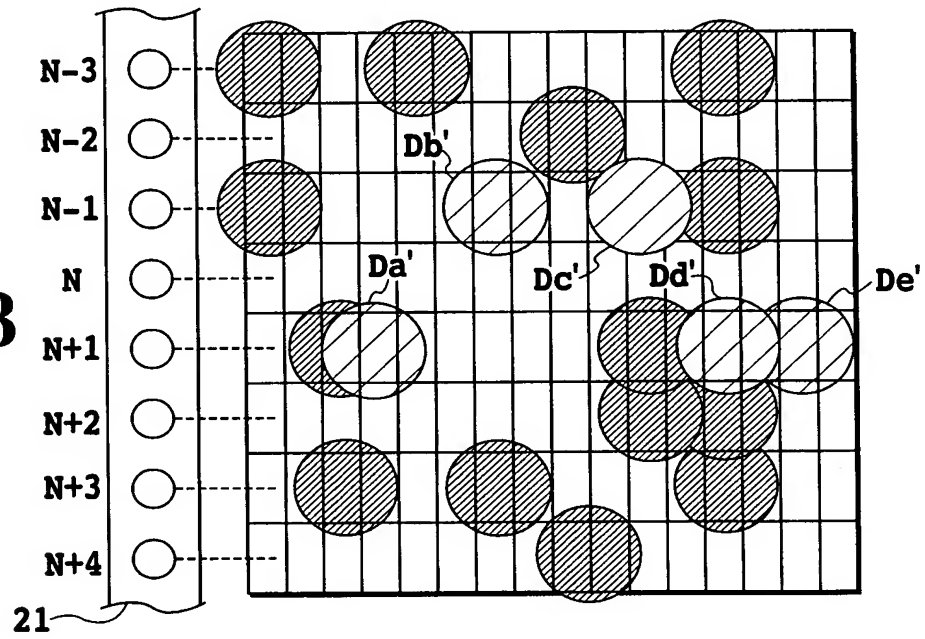
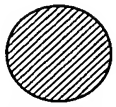
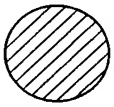


FIG.13B

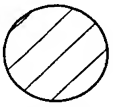




PRINTING DATA OF A NORMAL NOZZLE



PRINTING DATA OF EJECTION-DEFECTIVE MALFUNCTIONING NOZZLE (ABNORMAL NOZZLE)



PRINTING DATA COMPENSATED BY NEIGHBORING NOZZLE